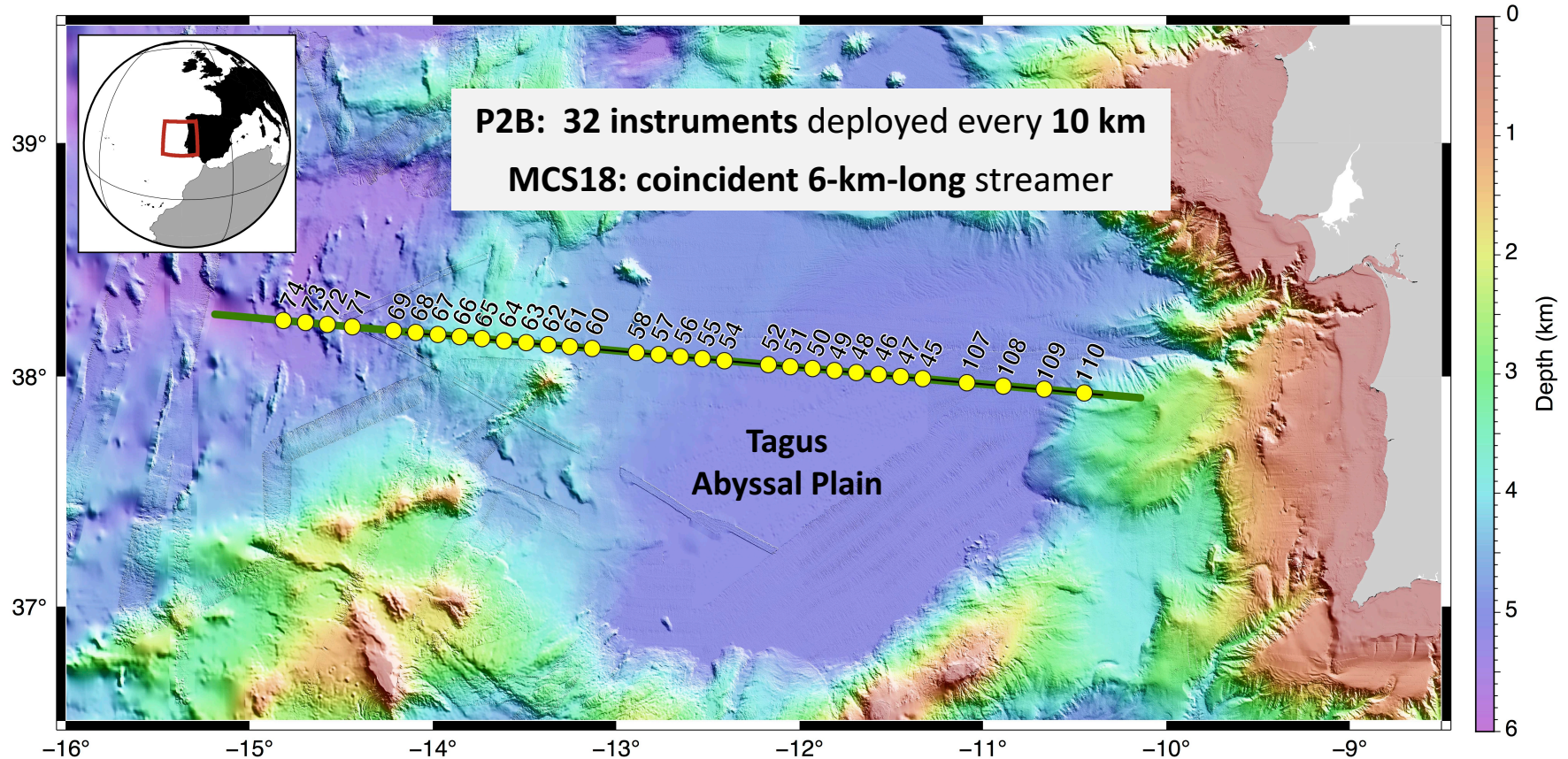


# The seismic structure of the West Iberian continent-ocean transition

Irene Merino

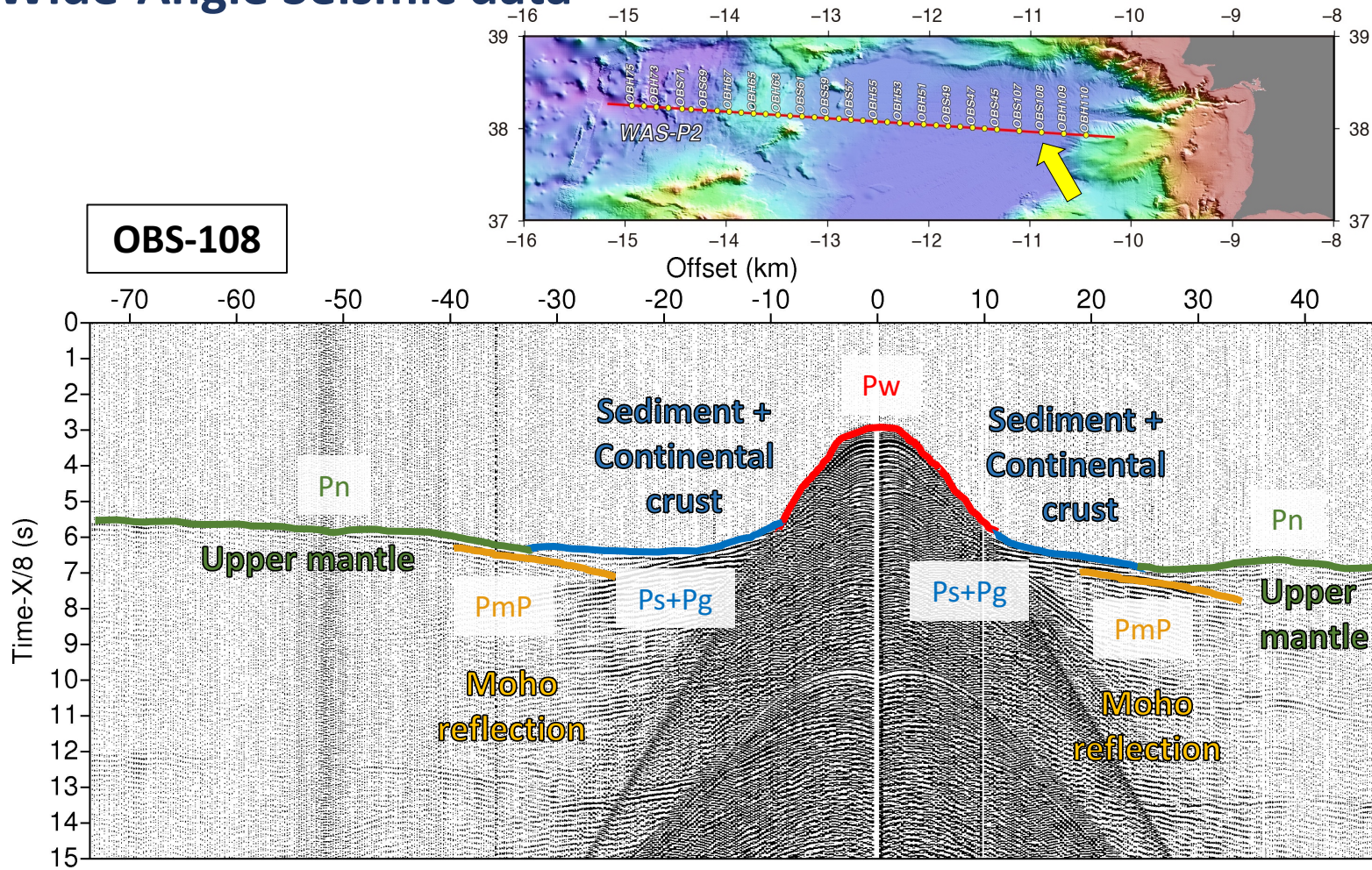
César R. Ranero - Valenti Sallarès - Manel Prada

# Survey - OBS/OBH data



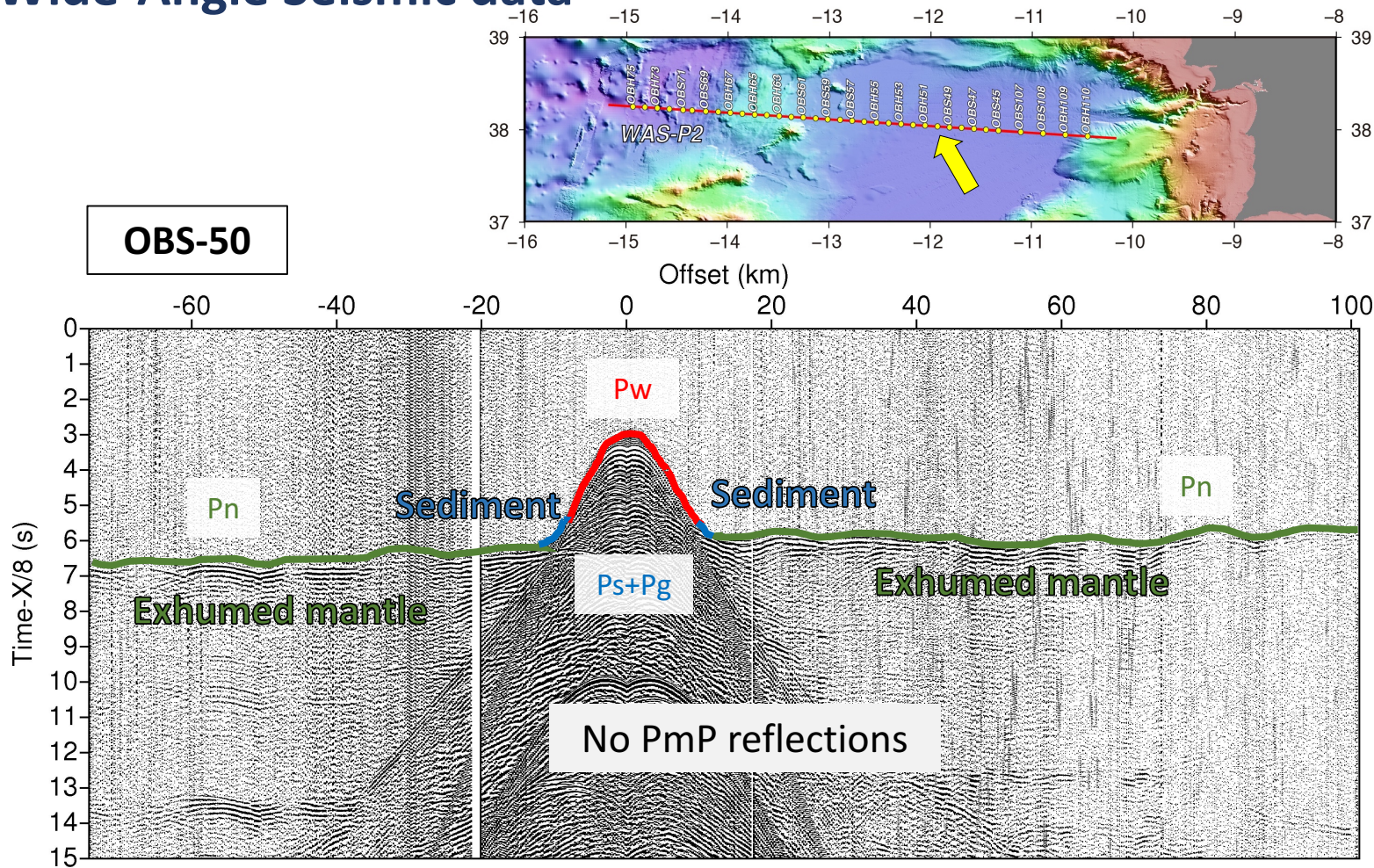


# Picking Wide-Angle Seismic data



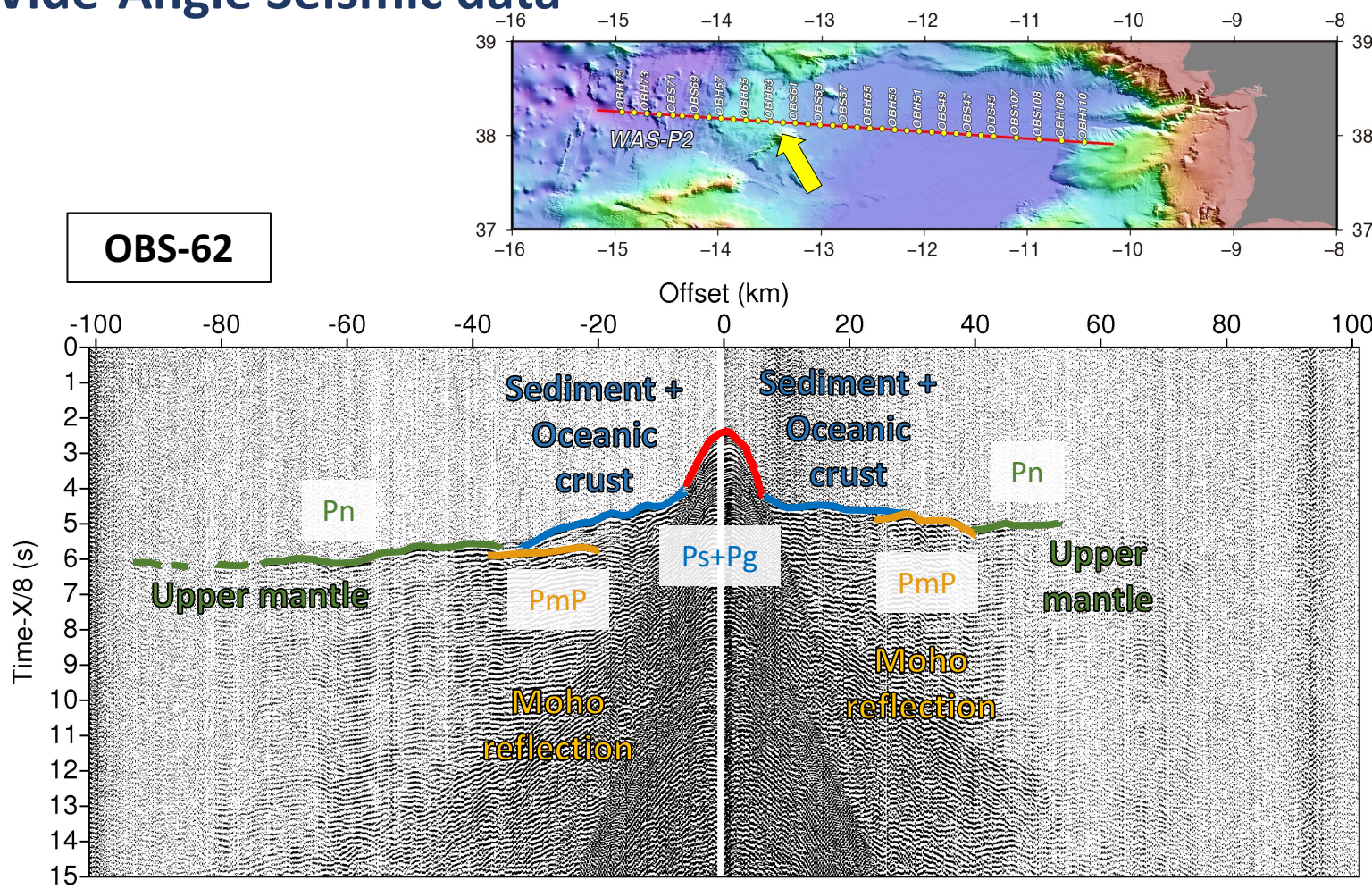


# Picking Wide-Angle Seismic data

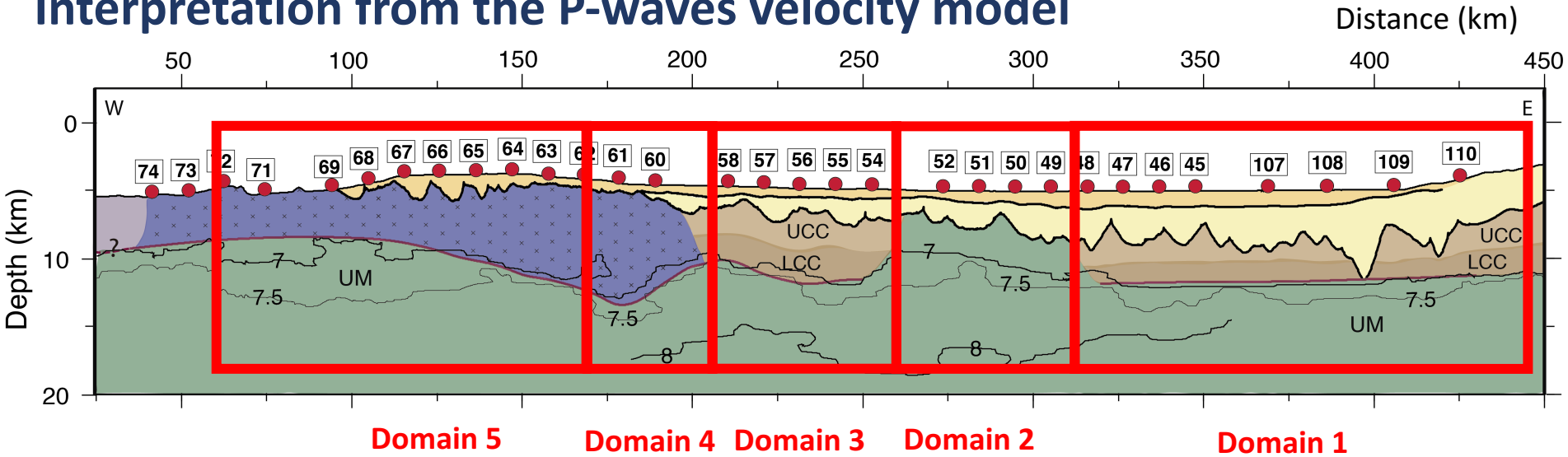




# Picking Wide-Angle Seismic data



# Interpretation from the P-waves velocity model



- To define the nature of the rock of the basement we need **accurate** velocity models that determine the **distribution of the velocity with depth**.
- Our velocity model is divided in 5 domains, showing a **different structure** from the previous models:
  - An **exhumed mantle** domain (75 km wide)
  - 2 **continental domains** : one extending from the margin and a 50-km-wide ribbon west of the exhumed mantle
  - A **oceanic domain** showing that the first pulse was thicker than the later steady state seafloor spreading to the west.